

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 11572 (1986): Purchaser's data sheet for fluid bed dryers [MED 17: Chemical Engineering Plants and Related Equipment]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

PURCHASER'S DATA SHEET FOR FLUID
BED DRYERS

1. **Scope** — Covers the technical data to be supplied by a purchaser to a supplier while placing an enquiry or order for the purchase of fluid bed dryer.
2. **Purchaser's Data Sheet**

PURCHASER'S DATA SHEET FOR FLUID BED DRYERS

1. *Feed Material*

- a) Pre-treatment
- b) Volatile content
 - Volatile matter at K percent (weight)
 - Free moisture percent (weight)
 - Water of crystallization percent (weight)
- c) Temperature K
- d) Density
 - True density g/ml
 - Bulk density g/ml
- e) pH
- f) Whether material free flowing or sticky
- g) Is process batchwise or continuous ?
 - If batchwise, state charge, size and cycle times
 - If continuous state amount of feed to be processed per operating hour.

2. *Dry Matter In Feed*

- a) Composition and character (crystalline, amorphous, polymeric)
- b) Specific heat j/kg.K
- c) Softening point K
- d) Melting point K
- e) Is the material corrosive, abrasive ?
- f) Is the material hygroscopic, thermoplastic ?
- g) Temperature and time to which the dry matter can be heated without damage
- h) Acceptable attrition loss percent (weight)
- i) Particle size distribution

Micron

Percent

(Continued)

PURCHASER'S DATA SHEET FOR FLUID BED DRYERS — *Contd*3. *Solvent/Diluent of Feed*

- | | | |
|--|-------|-------------|
| a) Composition | | |
| b) Boiling range | | |
| c) Density | | g/ml |
| d) Specific heat (liquid/gas) | | J/kg.K |
| e) Heat of vapourization | | J/kg |
| f) Viscosity | | cP |
| g) Explosion limits in air for solvent vapours | Lower | Vol percent |
| h) Maximum oxygen content to avoid explosion | | Vol percent |
| j) Remarks | | |

4. *Dried Product*

- | | | |
|--|---|--------------------|
| a) Output | | per h/per batch |
| b) Remaining volatile content
(weight percent on wet/dry basis) | | |
| Volatile matter at | K | percent (weight) |
| Moisture | | percent (weight) |
| c) Product temperature | | K |
| d) Maximum oxygen content to avoid powder degradation | | Vol percent |
| e) Remarks (for example, special product requirements) | | |

5. *Methods of Analysis*

- a) Volatile content in feed
- b) Volatile content in product
- c) State other relevant methods of analysis
- d) Remarks

6. *Process Chemical Hazards*

- a) Describe toxicity of diluent and dry matter
- b) Desired pollution norms:
 - 1) Particulate matter mg/m³
 - 2) Any other

7. *Process Design Basis*

- | | |
|---|---|
| a) Material of construction | |
| b) Design air conditions
(minimum/average/maximum) | |
| c) Temperature | K |
| d) Relative humidity, percent | |

(*Continued*)

PURCHASER'S DATA SHEET FOR FLUID BED DRYERS — *Contd*

- e) Barometric height : Above sea level
- f) Electric supply : V, ac or dc, frequency
No. of phases
- g) Fuel oil/gas supply — Heat of combustion (lower value):
Viscosity cP at temp K
Sulphur content
Supply pressure MPa
Supply temperature K
In case of fuel oil:
Type Heavy furnace or diesel oil, etc
Pour point K
Flash point K
- h) Steam supply (at plant location)
High pressure steam
pressure MPa
Temperature K
Low pressure steam
pressure MPa
Temperature K
- j) Additional information

8. *Process Experience*

- a) Existing dryer equipment (if possible flow sheet)
- b) Method of subsequent treatment (for example, agglomeration, cooling, conveying)

EXPLANATORY NOTE

The information given by a purchaser according to this data sheet will enable the manufacturer or supplier to assess the exact requirements of the purchaser and recommend to him the most suitable type of equipment.